

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP02/11296

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl⁷ F25B29/00, F25B13/00, F24F11/02, F24F6/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl⁷ F25B29/00, F25B13/00, F24F11/02, F24F6/00

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Jitsuyo Shinan Koho	1926-1996	Toroku Jitsuyo Shinan Koho	1994-2003
Kokai Jitsuyo Shinan Koho	1971-2003	Jitsuyo Shinan Toroku Koho	1996-2003

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

WPI

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP 7-54218 B2 (Mitsubishi Electric Corp.), 07 June, 1995 (07.06.95), Page 2, right column, line 13 to page 5, left column, line 37 & AU 7438191 A1 24 October, 1991 (24.10.91)	1-11
Y	JP 7-104075 B2 (Mitsubishi Electric Corp.), 13 November, 1995 (13.11.95), Figs. 1 to 5 & AU 7438191 A1 24 October, 1991 (24.10.91)	1-11
Y	JP 2692856 B2 (Mitsubishi Electric Corp.), 05 September, 1997 (05.09.97), Page 2, right column, line 28 to page 4, right column, line 10 (Family: none)	1-11

☒ Further documents are listed in the continuation of Box C.☐ See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not
considered to be of particular relevance"E" earlier document but published on or after the international filing
date"L" document which may throw doubts on priority claim(s) or which is
cited to establish the publication date of another citation or other
special reason (as specified)"O" document referring to an oral disclosure, use, exhibition or other
means"P" document published prior to the international filing date but later
than the priority date claimed"T" later document published after the international filing date or
priority date and not in conflict with the application but cited to
understand the principle or theory underlying the invention"X" document of particular relevance; the claimed invention cannot be
considered novel or cannot be considered to involve an inventive
step when the document is taken alone"Y" document of particular relevance; the claimed invention cannot be
considered to involve an inventive step when the document is
combined with one or more other such documents, such
combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search
21 January, 2003 (21.01.03)Date of mailing of the international search report
04 February, 2003 (04.02.03)Name and mailing address of the ISA/
Japanese Patent Office

Authorized officer

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP 2000-18766 A (Topre Co., Ltd.), 18 January, 2000 (18.01.00), Page 3, right column, line 19 to page 7, right column, line 30 (Family: none)	9
Y	JP 8-14438 B2 (Mitsubishi Electric Corp.), 14 February, 1996 (14.02.96), Page 1, right column, line 14 to page 2, right column, line 6 (Family: none)	9